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TITLE: Laser adjustment device of resistors - has 2or-not element to form logic 1 on coincidence of resistance measuring stage and end of cooling interval and uses analogue-digital converter to connect laser with increasing power.

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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: RU 2041511C
BASIC-ABSTRACT:

During a 1st stage, a meter (3) measures the resistance of an adjusted resistor (21) on passage of a command from a multi-vibrator (7) through a 2and element (6). A comparing unit (2) determines the difference between the voltage proportional to resistance and a voltage from a reference source (1), which is converted into a digital code by an analogue-digital converter (4) and passed to 2and-elements (8), also receiving a logic 1 from a shift register (5) and a logic 1 from a trigger (14). During presence of 3 logic 1 signals, elements (8) act through a digital-analogue converter (13) on a laser (19), to set the intensity of its radiation, evapg. material from the resistor and increasing is resistance. During connection of the laser, the signal proportional to its intensity passes to a functional converter (18), fixing the cooling of the resistive film, recorded in a selection-storage unit (17). A converter (10) converts this time into the length of a signal passed to a 2or-not element (9), forming a logic 1 during coincidence of the resistance measuring stage and end of the cooling interval. The converter (4) forms a new code caused by change of the resistance and the laser is connected with increasing change of the resistance and the laser is connected with increasing change of the resistance and the laser is connected with increasing intensity until the resistance of the resistor is at the set value.

USE/ADVANTAGE - Mfr. of film resistors. Better reliability and stability and redn. of noise. Bul. 22/9.8.95

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: LASER ADJUST DEVICE RESISTOR ELEMENT FORM LOGIC COINCIDE
RESISTANCE MEASURE STAGE END COOLING INTERVAL ANALOGUE DIGITAL
CONVERTER CONNECT LASER INCREASE POWER

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